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Comchip Technology
MMBT4403-G

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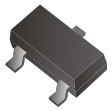
General Purpose Transistors

COMCHIP
SMD Diodes Specialist

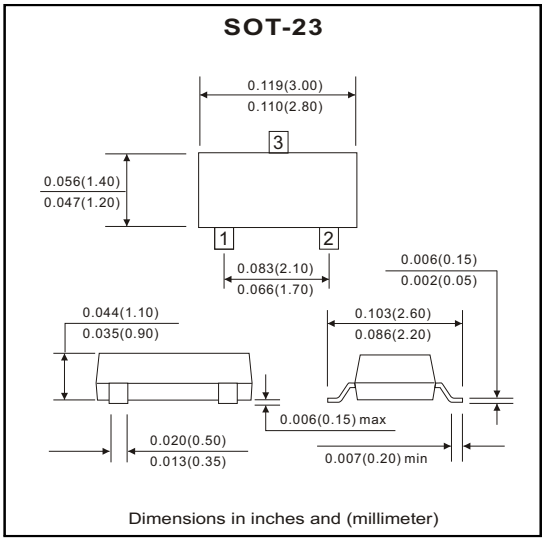
MMBT4403-G (PNP)

RoHS Device

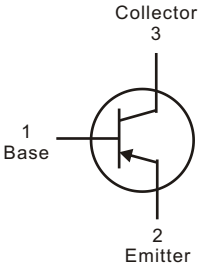


Features

-Switching transistor.



Marking: 2T



Maximum Ratings (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base voltage	V_{CBO}	-40	V
Collector-Emitter voltage	V_{CEO}	-40	V
Emitter-Base voltage	V_{EBO}	-5	V
Collector current-continuous	I_C	-0.6	A
Collector power dissipation	P_C	300	mW
Junction temperature	T_J	150	°C
Storage temperature range	T_{STG}	-55 to +150	°C

Electrical Characteristics (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ.	Max	Unit
Collector-Base breakdown voltage	$V_{(BR)CBO}$	I_C=-100μA, I_E=0	-40			V
Collector-Emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-1mA, I_B=0	-40			V
Emitter-Base breakdown voltage	$V_{(BR)EBO}$	I_E=-100μA, I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-35V, I_E=0			-0.1	μA
Collector cut-off current	I_{CEO}	V_{CE}=-35V, I_B=0			-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-4V, I_C=0			-0.1	μA
DC current gain	h_{FE}	V_{CE}=-2V, I_C=-150mA	100		300	
Collector-Emitter saturation voltage	$V_{CE(SAT)}$	I_C=-150mA, I_B=-15mA			-0.4	V
Base-Emitter saturation voltage	$V_{BE(SAT)}$	I_C=-150mA, I_B=-15mA			-0.95	V
Transition frequency	f_T	V_{CE}=-10V, I_C=-20mA f=100MHz	200			MHz

General Purpose Transistors

SMD Diodes Specialist

RATING AND CHARACTERISTIC CURVES (MMBT4403-G)

Fig.1 Max. Power Dissipation vs. Ambient Temperature

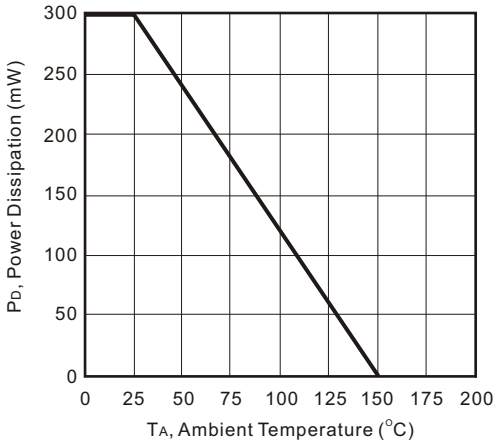


Fig. 2 Typical DC Current Gain vs. Collector Current

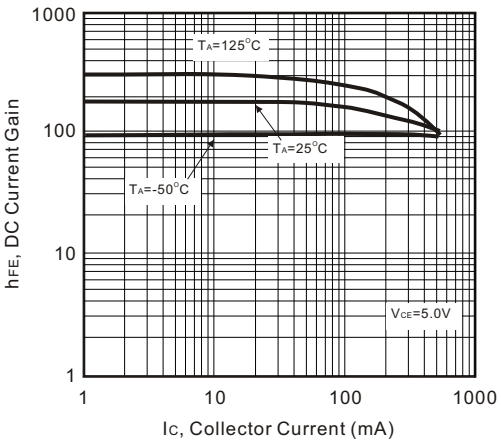


Fig. 3 Typical Capacitance

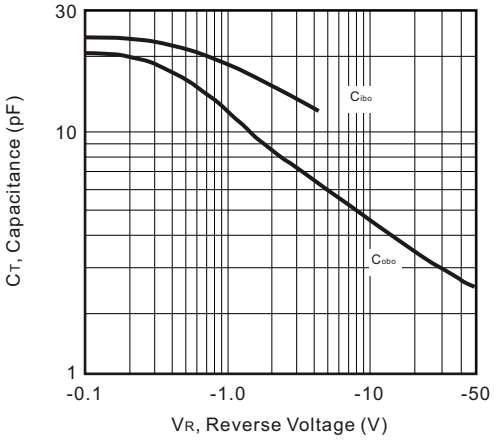


Fig. 4 Typical Collector Saturation Region

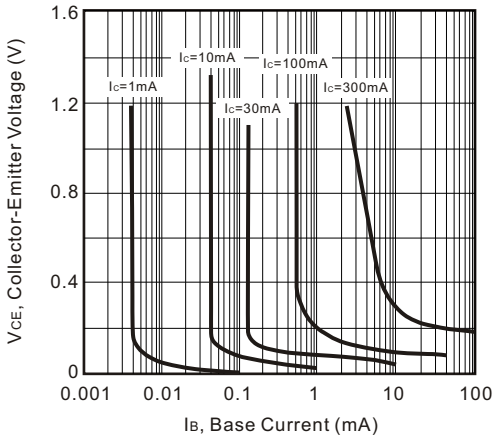


Fig. 5 Collector-Emitter Saturation Voltage vs. Collector Current

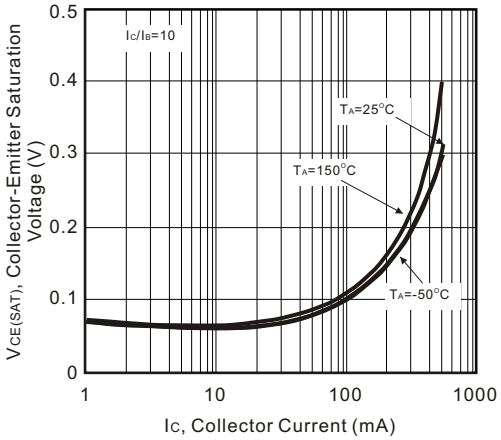


Fig. 6 Base-Emitter Voltage vs. Collector Current